



AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph on page 8, lines 12-21 with the following amended paragraph:

Five tabs are also illustrated in FIG. 3: Factors 307, Responses 309, Cases 311, Blocks 317, and Experiments 315. In FIG. 3, the table shown (headed by "Factor Name") 317 corresponds to when the Factors tab 307 is selected. A factor is a parameter to be adjusted between experiments while running the DOE plan. In other words, factors can be recipe parameters of the tool. The user can select a set of factors from a field of factors. As the example depicted in FIG. 3 shows, the factors can be a baseline time 319, center time 321, edge time 323, etc. These are the parameters relating to an oxide CMP profiler tool. For this set of factors, their units are in milliseconds. The term "LSL" 327 means the lower specification limit, and the term "USL" 329 means the upper specification limit. After selecting the factors, the user can enter the values for the LSL and USL. The user can specify if the factors are to be time-based or constant value.

11/1
12/19/07
Please replace the paragraph on page 13, lines 6-13 with the following amended paragraph:

More specifically, the Formula type window 801 allows the user to select one of four formula types: linear without interactions 803; linear with interactions 805; quadratic without interactions 807; and quadratic with interactions 809811. The equations for these formulas are similar to the equations describe above in connection with FIG. 5. In additions to the four formulas, the user is allowed to enter a more general time-based or non-time-based linear-in-parameters model structure by selecting a "Use Template" option 813. Using this option, the user then enters terms 817 and designates whether the terms are time-based in a Time-Base designating field 819.

Please replace the paragraph on page 20, lines 6-13 with the following amended paragraph:

In each tool, the APC 1205 communicates with a specific tool and the APC can be accessed by the APC console 1205 or the operator console ~~1205~~1209 remotely. The APC connects to the tool via the connection tools. With respect to the APC, at least some of its various features are also described in U.S. Patent Publication No. 2003-0049376, matured from